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| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR  | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 10/543,049   | 07/21/2005  | James William Godfrey | PB60017USW          | 3927             |
| 23347 7590 10/30/2008<br>GLAXOSMITHKLINE<br>CORPORATE INTELLECTUAL PROPERTY, MAI B482<br>FIVE MOORE DR., PO BOX 13398<br>RESEARCH TRIANGLE PARK, NC 27709-3398 |             |                       |                     |                  |
| EXAMINER   |             |                       |                     |                  |
| OSTRUP, CLINTON T  |             |                       |                     |                  |
| ART UNIT   |             | PAPER NUMBER          |                     |                  |
| 3771   |             |                       |                     |                  |
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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### Office Action Summary

**Application No.**

10/543,049

**Applicant(s)**

GODFREY, JAMES WILLIAM

**Examiner**

CLINTON OSTRUP

**Art Unit**

3771

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 25 July 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 19 and 24-53 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 19 and 24-53 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 July 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/S508)
- Paper No(s)/Mail Date 8/5/08 & 9/30/08.
- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application.
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

1. This Office Action is in response to the amendment filed 7/25/08. As directed by the amendment, claims 1-18 and 20-23 have been cancelled and claims 24-53 have been added. Thus, claims 19 and 24-53 are pending in this application.

#### ***Information Disclosure Statement***

2. The information disclosure statements filed 8/5/08 & 9/30/08 fail to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; **each non-patent literature publication or that portion which caused it to be listed;** and all other information or that portion which caused it to be listed. Emphasis added. It has been placed in the application file, but the information referred to as Non-Patent Literature Documents has not been considered. See: See: initialed and signed information disclosure statements with a line through the references that were not considered.

#### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 19 and 24-53 are rejected under 35 U.S.C. 103(a) as being unpatentable Brand et al., (WO 01/2887 A1) and further in view of Stearns et al (2,648,578).**

Brand, teaches a ring-like fixation device (125, 225, 325, & 425) for fixing an aerosol canister (120, 220, 320, & 420) to dose indicating device (100, 200, 300, & 400). Brand teaches the fixation device as a split-ring and that it can be wedged between the tubular sleeve and the neck of the canister.

Moreover, applicant has admitted in the specification, how Brand teaches a "fixation device of the type defined... for connecting a device housing to the business end of an aerosol canister." Applicants further admits that the fixation device taught by Brand, "has a ring-like body... having an axial split;" however, applicant contends that "the fixation device is integrally formed with the split in the body." Thus, the aim of the present invention, according to applicant's specification is to provide a fixation device that avoids a problem associated with forming split-rings in mass production, namely the rings becoming entangled with one another. Thus, the question is whether forming a ring with a weakened zone and then splitting the ring at the weakened zone, to form the same ring described by Brand et al., is unobvious over the teaching of Brand et al. taken together with what is known in the prior art.

First, it should be noted that Brand is silent with respect to how their fixation device is formed and that the final fixation device, as claimed instantly, becomes the same fixation device taught by Brand after the weakened zone is removed.

Therefore, Brand teaches a method of using the fixation device, as claimed, however, Brand lack the specific teaching of forming a ring body with a weakened zone instead of a ring body with an axial split as claimed in claims 19 and 24-53.

Stearns discloses a ring with a weakened zone that is broken by placing the ring over an expansion member to form an axial split in the weakened part of the ring. See: col. 3, lines 20-42 & figures 1-5

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Brand's ring to have a weakened zone, as taught by Stearns, since a ring with a weakened zone is easy to manufacture and it can be broken easily.

Regarding claim 24, Stearns teaches an axial split in the [ring] body at the weakened zone gives the body a generally C-shape. See: Stearns, figure 3.

Regarding claim 25, Brand discloses a fixation device (325) consists of the ring body. See: figures 4a-4c.

Regarding claim 26, Stearns teaches a weakened zone that is a structural discontinuity in the body. See: Stearns, figure 1.

Regarding claim 27, the structural discontinuity taught by Stearns is a notch. See: Stearns, figure 1.

Regarding claim 28, Brand discloses a fixation device (325) is wedged between the first (320) and second parts (300). See: figures 4a-4c.

Regarding claims 29-30, Brand discloses a fixation device is wedged between an outer re-entrant surface (outer upper edge of 321) of the first part and an inner (302) reentrant surface of the second part (300).

Regarding claim 31, Brand discloses the re-entrant surface as the outer surface (outer upper edge of 321) of the first part (320).

Regarding claim 32, Brand discloses the inner surface (302) is presented by a skirt (302) of the second part which extends about the outer surface of the first part (figure 4c).

Regarding claim 33, Brand discloses a first part (320) which has a longitudinal axis and the fixation device (325) prevents removal of the second part (300) from the first part in a first axial direction. See: figures 4a-4c.

Regarding claim 34, Brand discloses first (320) and second (300) parts each having an abutment surface in abutting relation to prevent the second part being removed from the first part in a second axial direction. See: figures 4a-4c.

Regarding claim 35, Brand discloses the multi-part assembly is a product dispenser (medicament dispenser) with the first part (320) a product container (canister).

Regarding claim 36, Brand discloses the second part (300) is an accessory (housing) of the dispenser.

Regarding claim 37, Brand discloses a first part (320) that has a longitudinal axis, a lateral end surface, and a longitudinal side surface which extends towards the end surface in a first axial direction and which has a profile which tapers laterally outwardly in the first axial direction, and the second part (300) has a longitudinal axis, a lateral surface and a longitudinal skirt (302), wherein the first and second parts are assembled with the axes aligned (figures 4a-4c), the respective lateral surfaces in bearing relation and the skirt spaced laterally from the tapered profile of the longitudinal side surface of the first part, and the body (325) of the fixation device is wedged in a radially expanded

condition in the space between the skirt and the tapered profile. See: page 11, line 29 - page 12, line 9 and figures 4a-4c.

Regarding claim 37, Brand discloses the body (325) of the fixation device is conjoined to the skirt (page 11, line 29 - page 12, line 10).

Regarding claim 39, Stearns teaches the axial split is formed by applying a radial force on the body. See: col. 3, line 59 - col. 4, line 11 and figure 3.

Regarding claim 40, Stearns teaches the radial force as a radial outward force. See: col. 3, line 59 - col. 4, line 11 and figure 3.

Regarding claims 41-42, by applying a ring with a weakened zone, as taught by Stearns, to the neck (321 of Brand) the ring would necessarily pass over (ferrule 322) which is a tapered structure. Thus, the axial split would be formed by radially expanding the ring of Stearns by inserting the tapered ferrule (322 of Brand) into the ring body.

Regarding claim 43, it appears Brand teaches a ring molded from a plastic material, as Brand describes ultrasonically welding it to the sleeve; however, Brand lacks specifically describing the ring as molded plastic. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have formed the weakened ring out of a molded plastic material, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In the instant case, metered dose inhalers and their components are typically molded of plastic materials.

Regarding claim 44, Brand discloses the re-entrant surface is a tapering surface (See: figure 4a between ferrule 322 and neck 321) which tapers in a first direction and

the fixation device (325) is moved in the first direction over the tapering surface until it is wedged between the tapering surface and the inner surface( 302) of the second part (302).

Regarding claim 45, brand discloses the ring body has radially spaced-apart inner and outer circumferential surfaces (the inner and outer surfaces of the ring) and the inner circumferential surface bears against an outer surface (between 321 & 322) of the first part (320) and the outer circumferential surface bears against an inner surface (302) of the second part (300).

Regarding claim 46, Brand discloses the outer circumferential surface is conjoined to the inner surface (302) of the second part. See: page 12, lines 7-9.

Regarding claim 47, Brand discloses the second part (300) as a cap (it covers the top of 320) slidably received on the first part (320). See: figures 4a-4c.

Regarding claim 48, Stearns discloses the axial split as irreversibly formed (broken along the weak plane as determined by the groove 22) in the body.

Regarding claim 49, Brand discloses a ring body (325) that has a longitudinal axis and a cross-sectional shape which is symmetrical about an axis which is transverse to the longitudinal axis. See: figures 4a-4c.

Regarding claim 50, Brand discloses the fixation device (325) is mounted to the first part (figure 4b), the second part is mounted to the first part (figure 4c) to form a gap there between and the fixation device is wedged in the gap between the first and second parts. See: page 11, line 29 - page 12, line 9.



Regarding claim 51, Stearns teaches forming an axial split (figure 5) and Brand discloses applying a ring with an axial split to mount the fixation device (325) on the first part (320). See: figures 4a-4c.

Regarding claim 52, Brand discloses the first part (320) presents an outer surface facing the gap (figure 4c) which tapers outwardly (the area from the ferrule 322 to, and including, the neck 321) in a first direction and the fixation device (325) is moved over the outer surface in the first direction until it is wedged in the gap. See: figure 4c.

Regarding claim 53, Brand discloses the fixation device (325) as conjoined to the second part (300) once wedged in the gap. See: page 11, line 29 - page 12, line 9.

### ***Response to Arguments***

6. Applicant's arguments with respect to claim 19 & 24-53 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Bongartz et al., (7,008,325) is being supplied to show another reference that uses a ring with a weakened zone, breaks the ring at the weakened zone, and then uses the ring to fix two parts together.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CLINTON OSTRUP whose telephone number is (571)272-5559. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Justine Yu can be reached on (571) 272-4835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Justine R Yu/  
Supervisory Patent Examiner, Art Unit 3771

/Clinton Ostrup/  
Examiner, Art Unit 3771